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Issued on  
October 18, 1932

IMPERIAL PATENT OFFICE

PATENT SPECIFICATION

No. 561 757

Class 30 d Group 17

H 128753 IX/30 d

Date of Publication of the Granting of Patent:  
September 29, 1932

Georg Heuchemer in Stuttgart-Cannstadt

Bell-Shaped Vaginal Pessary

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561 757

Georg Heuchemer in Stuttgart-Cannstadt

Bell-Shaped Vaginal Pessary

Patented in the German Empire from September 30, 1931

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The present invention pertains to an especially expedient form and handling of inflatable vaginal pessaries, in which the pessaries can be emptied by a simple movement.

Inflatable vaginal pessaries with feed lines for air and medicinal liquids, which can be drained off when necessary, have been known.

The novelty is that the inflatable part is fastened, in a particularly advantageous manner, by means of perforated, air-guiding screws, and that emptying can be performed in an especially simple manner.

An exemplary embodiment is shown in the drawing.

According to Figure 1, a rubber tube *c* is fastened by means of a perforated screw *b* to a fixed bottom part *a* made of light metal or hard rubber in a turned groove of such a shape that a bell-shaped tube, which covers the head of the uterus and is at the same time sealingly pressed against the walls of the vaginal canal, is formed upon inflation, so that displacement is ruled out. The cover *d* screwed into the bottom part *a* contains the spring-tensioned plate *f* acting as a check valve and the air feed tube *c*. After introduction by means of the tube *c* and after the pessary has been inflated with compressed air, it may be worn for as long as needed, because the tube *c* can be screwed off.

However, to make it possible to pump a medicinal fluid between the uterus and the pessary, a tube *g* is screwed into the cover *d*, through which the liquid is pumped into the desired space in the known manner by means of a hole *g'* and the rubber valve *h* acting as a check valve.

The pessary is emptied by pushing in the pin *i*, which is fastened to the valve plate *f*, with the fingernail, as a result of which the plate *f* is raised and the compressed air can escape. The pessary can now be easily removed from the vagina. Liquid that may have been pumped in can flow off by itself.

According to another embodiment, the cover *d* for accommodating the drain tube *k* is provided, according to Figure 2, with another threaded hole and a hole *k'*, so that the liquid pumped in through the tube *g* and the valve *h* can flow off, and irrigation of the uterus is possible without the irrigating liquid coming into contact with the vaginal walls.

#### Patent Claims:

1. Bell-shaped vaginal pessary, in which an inflatable soft rubber ring is fastened to a rigid bottom part, which can be introduced by means of an inserting tube, characterized in that the soft rubber ring (*c*) is inserted and screwed into a recess of the bottom part (*a*) by means of a perforated screw (*b*).

2. Vaginal pessary in accordance with claim 1, characterized in that a spring-tensioned plate valve, whose plate (*f*) can be ventilated by a pin (*i*) that can be lifted by pressing with the finger, is arranged in the bottom part (*a*) to let out the air.

3. Vaginal pessary in accordance with claims 1 and 2, characterized in that the bottom part (*a*, *d*) has a hole (*g'*), which is closed by a plate valve (*h*) and through which medicinal liquids can be pumped in by means of a feed tube (*g*).

4. Vaginal pessary in accordance with claim 3, characterized in that the bottom cover (*d*) also has a hole (*k'*), through which the irrigating liquid can flow off via a drain tube (*k*).

Attached: 1 sheet of drawings

To Patent No. 561 757  
Cl. 30 d Group 17

Figure 1

KEY:

- (a) Drug
- (b) Compressed air

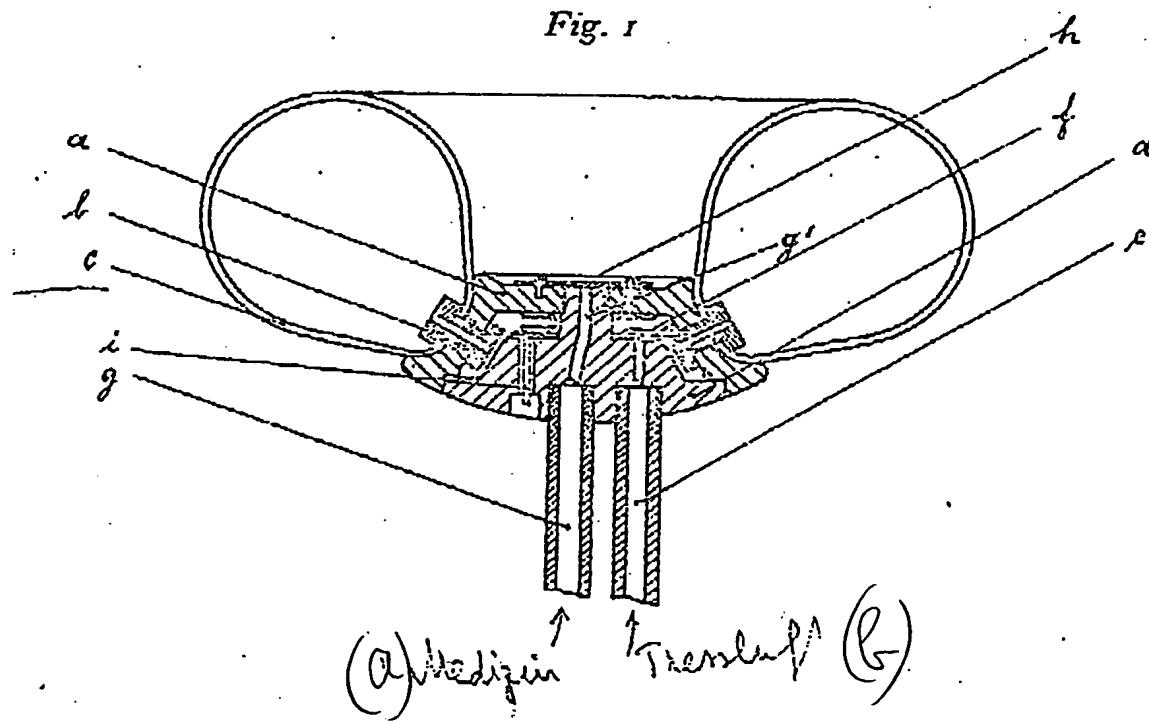
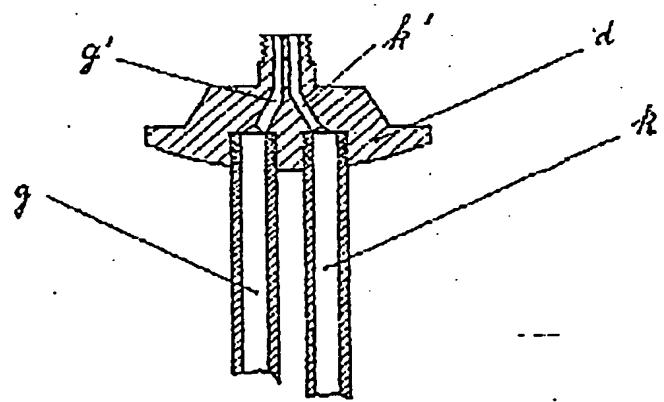


Figure 2

Fig. 2



## PATENT COOPERATION TREATY

INTERNATIONAL PUBLICATION No. WO91/16030  
 INTERNATIONAL APPLICATION No. PCT/US91/02329

NOTICE  
 INFORMING THE APPLICANT OF  
 THE COMMUNICATION OF THE  
 INTERNATIONAL APPLICATION  
 TO THE DESIGNATED OFFICES  
 issued under PCT RULE 47.1(c),  
 first sentence

DATE OF MAILING OF THIS NOTICE  
 31 October 1991 (31.10.91)

APPLICANT'S OR AGENT'S  
 FILE REFERENCE  
 2877.1AHHD

To:

DOLEZALOVA, Hana  
 Phillips, Moore, Lempio & Finley  
 177 Post Street  
 Suite 800  
 San Francisco, CA 94108-4731  
 ÉTATS-UNIS D'AMÉRIQUE

From:

The International Bureau of WIPO  
 1211 Geneva 20  
 Switzerland

Notice is hereby given that the International Bureau has communicated, as provided in PCT Article 20, the international application referred to above to the following designated Offices on the date indicated above as the date of mailing of this Notice:

to the national Offices of AU, CA, HU, JP, KR, SU, and to EP

The applicant is reminded that he must enter the "national phase" before each designated Office by performing, within the time limit applicable under PCT Article 22 or 39(1), the acts referred to therein.

In accordance with PCT Rule 47.1(c), third sentence, each designated Office has been informed, separately from the communication of the international application, of the sending and the date of mailing of the present notice.

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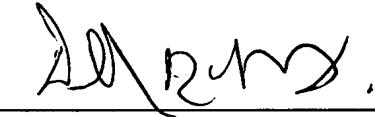
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of :  
LOUIS C. ARGENTA & MICHAEL : Art Unit: 3305  
J. MORYKwas :  
Serial No. 08/028,677 : Examiner: J. PLACYK  
Filed: March 9, 1993 : RECEIVED  
For: WOUND TREATMENT EMPLOYING : MAR 15 1995  
REDUCED PRESSURE :  
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GROUP 2300

Certificate of Mailing Under 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited on March 6, 1995 with the United States Postal Service as first-class mail in an envelope properly addressed to COMMISSIONER OF PATENTS AND TRADEMARKS, Washington, DC 20231.

March 6, 1995  
Date of Certificate

  
DONALD R. PIPER, JR.  
Attorney for Applicant(s)  
PTO Registration No. 29,337

TO: OFFICIAL DRAFTSPERSON

SUBMISSION OF FORMAL DRAWINGS

Pursuant to the Notice of Allowance issued January 5, 1995, Applicants are submitting a set of formal drawings to replace the informal drawings originally filed with the application.

In the Office Action dated January 12, 1994, the Draftsperson objected to the original informal drawings of Figs. 1-11 under 37 C.F.R. 1.84 because the lines were pale or rough and blurred and because the reference characters were poor or incorrectly sized. Some of the Figures of the informal drawings contained hand-drawn reference numerals. The formal drawings are identical to the drawings originally filed with the application except that the character of the lines has been improved so that the lines are no longer pale or rough and blurred and certain reference characters have been redone so that they are no longer poor or incorrectly

sized. As such, no new matter is being added. The Examiner's approval is therefore requested.

Respectfully submitted,

DANN DORFMAN HERRELL AND SKILLMAN  
A Professional Corporation  
Attorneys for Applicant(s)



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DONALD R. PIPER, JR.  
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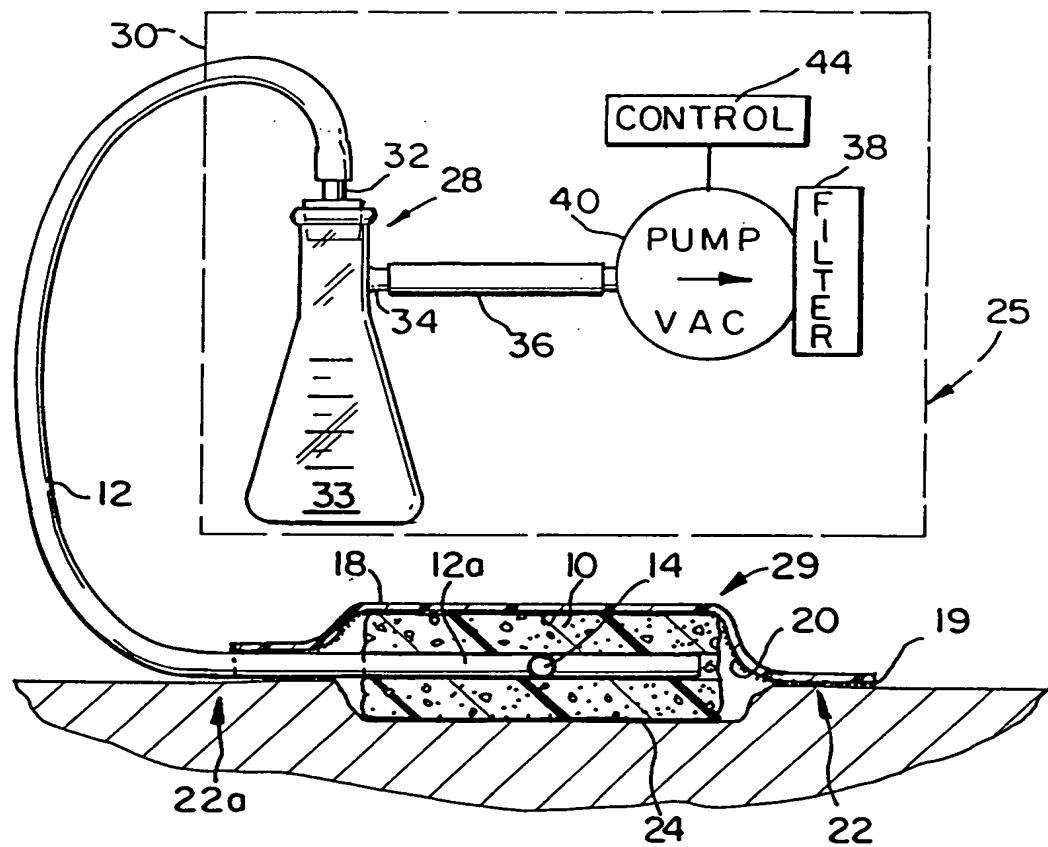


FIG. 1

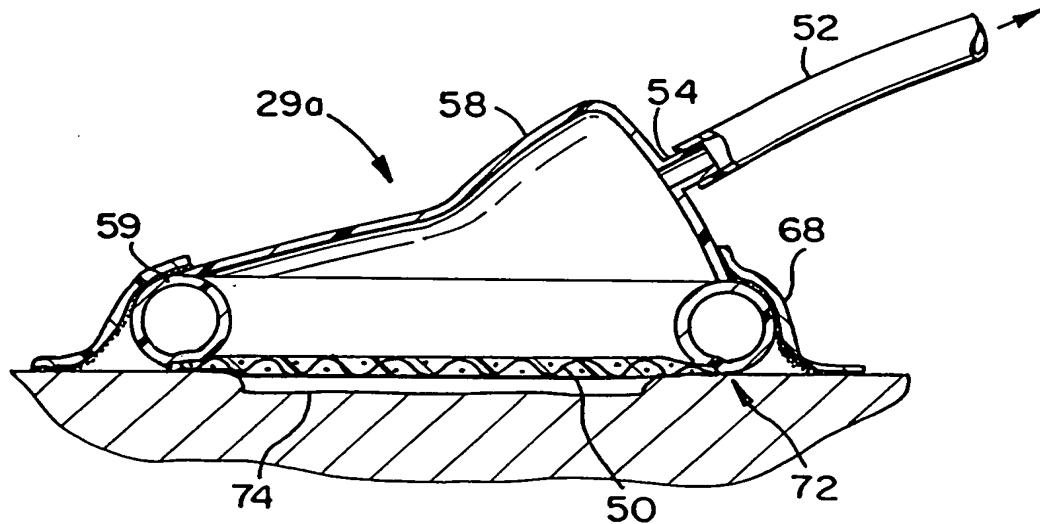
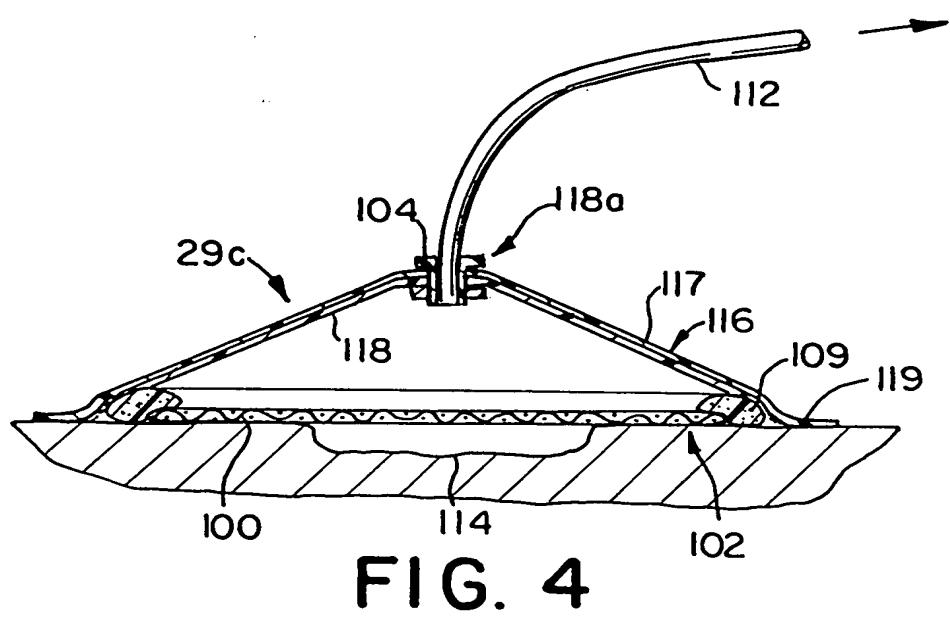
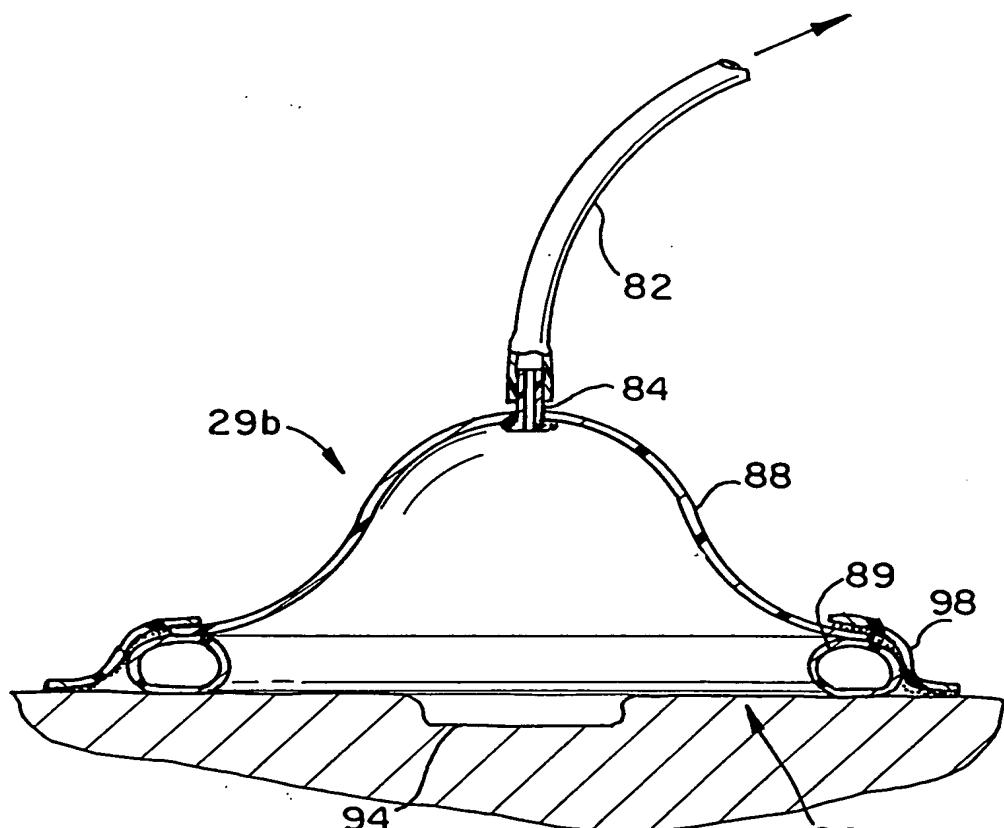


FIG. 2



028,677

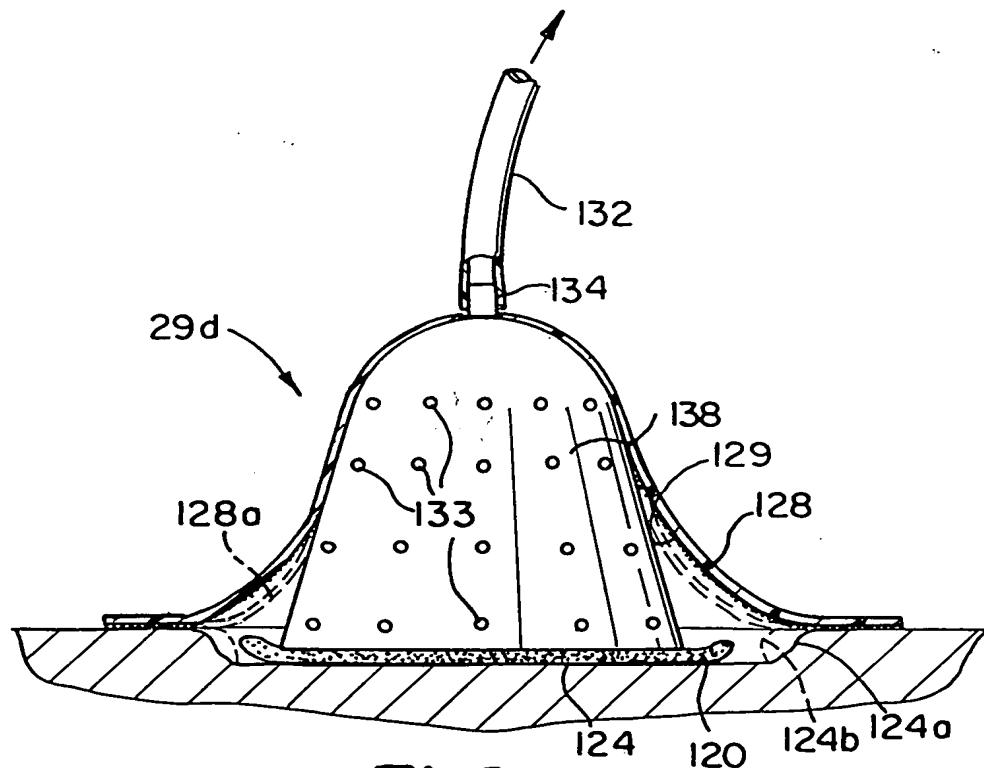


FIG. 5

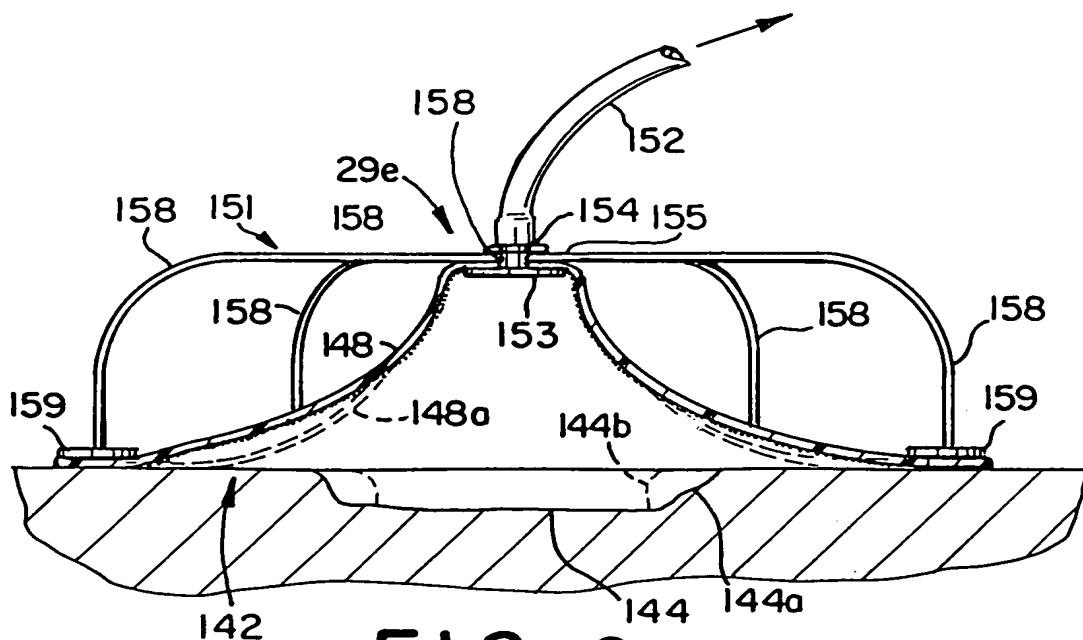


FIG. 6

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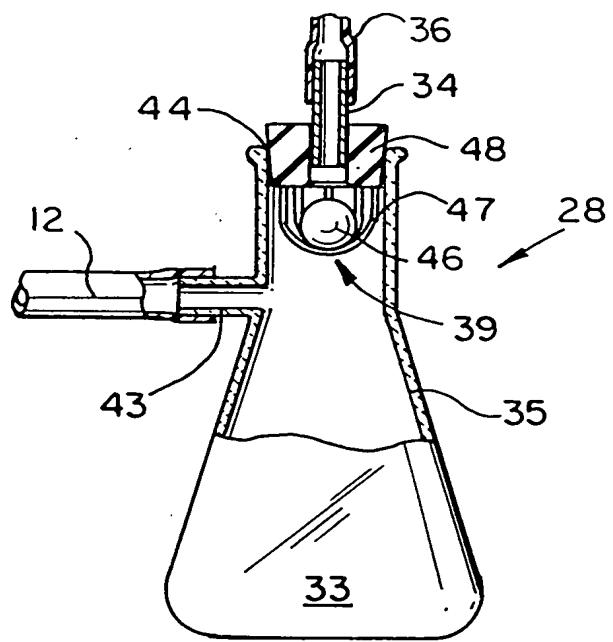


FIG. 7

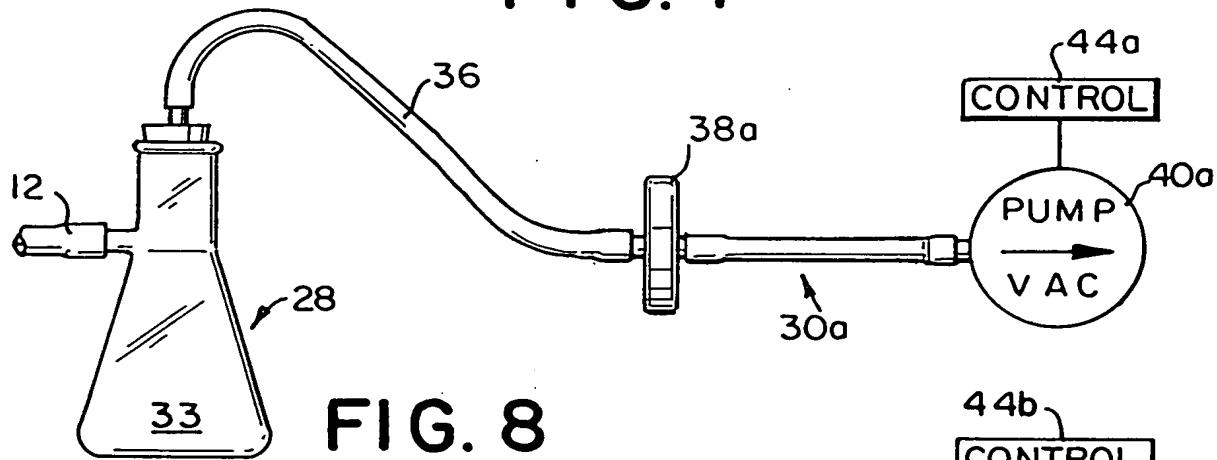
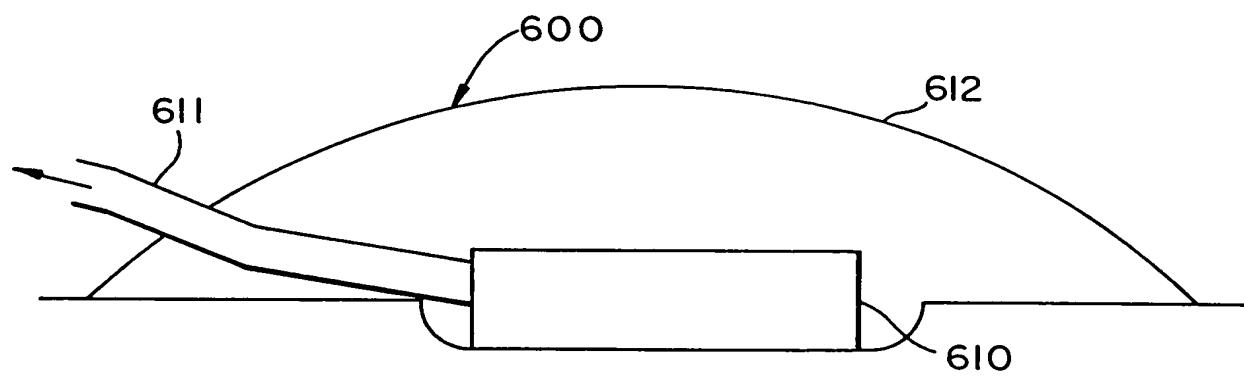


FIG. 8

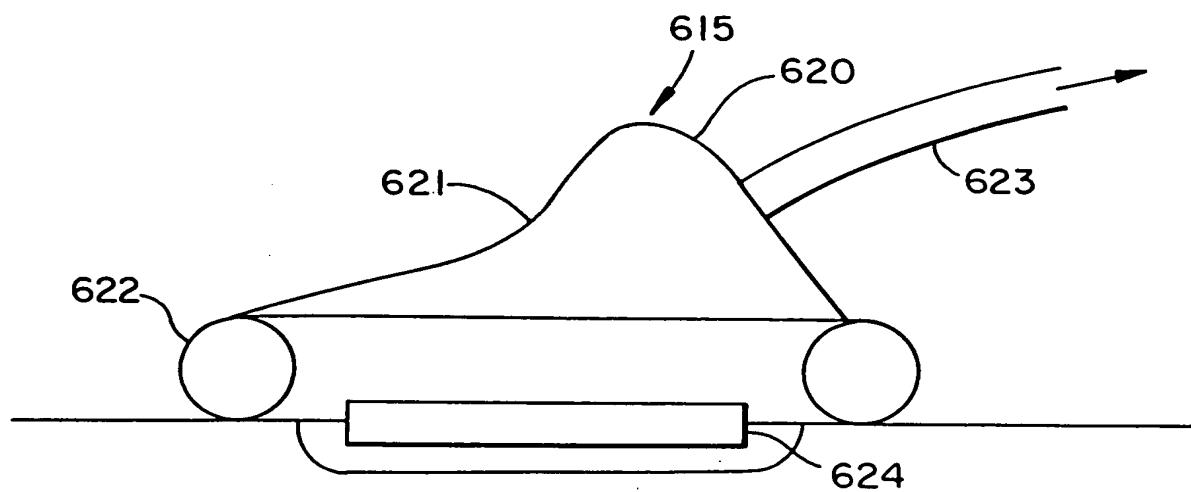


FIG. 9

028677



**FIG. 10**



**FIG. 11**



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of :  
LOUIS C. ARGENTA and MICHAEL J. : ISSUE DIVISION  
MORYKWAS :  
Serial No. 08/028,677 :  
Filed: March 9, 1993 : BATCH: H65  
For: WOUND TREATMENT EMPLOYING :  
REDUCED PRESSURE :

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April 4, 1995  
Date of Certificate

DONALD R. PIPER, JR.  
Attorney for Applicant(s)  
PTO Req. No. 29,337

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## Notification Regarding Revocation of Small Entity Status

The small entity status for this application is hereby revoked. The rights in the patent application have been assigned to a company that is not a small entity. Accordingly, Applicants are no longer entitled to small entity status.

DANN, DORFMAN, HERRELL AND SKILLMAN  
A Professional Corporation

By DONALD R. PIPER, JR.  
DONALD R. PIPER, JR.  
PTO Registration No. 29,337

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re the Application of

LOUIS C. ARGENTA and MICHAEL J. MORYKwas : ISSUE DIVISION

Serial No. 08/028,677 :

Filed: March 9, 1993 : BATCH: H65

For: WOUND TREATMENT EMPLOYING  
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Respectfully submitted,

DANN DORFMAN HERRELL AND SKILLMAN  
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Attorneys for Applicant(s)

  
DONALD R. PIPER, JR.  
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Telephone: 215/563-4100  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

LOUIS C. ARGENTA and MICHAEL J.  
MORYKwas

Serial No. 08/028,677

Filed: March 9, 1993

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SERIES CODE/SERIAL NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
08/028,677	03/09/93	040	LACYK, J	3305 01/05/95

First Name  
Applicant ARGENTA, LOUIS C.

TITLE OF INVENTION WOUND TREATMENT EMPLOYING REDUCED PRESSURE

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEES DUE	DATE DUE
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

the Patent Application of  
LOUIS C. ARGENTA & MICHAEL J. MORYKwas  
Serial No. 08/028,677  
Filed: March 9, 1993  
For: WOUND TREATMENT EMPLOYING  
REDUCED PRESSURE

Art Unit: 3305  
Examiner: J. Lacyk

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Donald R. Piper, Jr.  
Donald R. Piper, Jr.  
Attorney for Applicant(s)

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DISCLOSURE STATEMENT (37 CFR 1.97(e))

I, Donald R. Piper, Jr., attorney for applicants,  
hereby certify that no item of information contained in this  
Supplemental Information Disclosure Statement was cited in a  
communication from a foreign patent office in a counterpart  
foreign application or, to my knowledge after making  
reasonable inquiry, was known to any individual designated in  
§1.56(c) more than three months prior to the filing of this



Supplemental Information Disclosure Statement. 37 CFR  
§1.97(e) TRADEMARKS

**INFORMATION DISCLOSURE STATEMENT FILED AFTER  
THE ISSUANCE OF A NOTICE OF ALLOWANCE UNDER  
37 CFR §1.311**

This Supplemental Information Disclosure Statement is being filed after issuance of a Notice of Allowance under 37 CFR §1.311. In accordance with the requirements of 37 CFR §1.97(d):

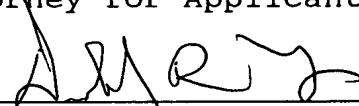
- (a) A certification is provided as specified in 37 CFR §1.97(e).
- (b) Applicant hereby petitions for the consideration of this Supplemental Information Disclosure Statement. 37 CFR §1.97(d)(ii).
- (c) Applicant submits the petition fee set forth in §1.17(i)(1). (\$130.00).

**Supplemental Information Disclosure Statement**

All of the references disclosed in this Supplemental Information Disclosure Statement were first disclosed to the undersigned attorney in a letter sent from a licensee of the patent application on March 27, 1995. The set of references was received by the undersigned attorney from the licensee on Friday, March 31, 1995.

Respectfully submitted,

DANN, DORFMAN, HERRELL AND SKILLMAN  
A Professional Corporation  
Attorney for Applicant(s)

By: 

Donald R. Piper, Jr.  
PTO Registration No. 29,337

Telephone: 215/563-4100  
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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE  
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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
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ATTY. DOCKET NO.

SERIAL NO. 08/028,677

APPLICANT  
LOUIS C. ARGENTA and MICHAEL J. MORYKwasFILING DATE  
March 9, 1993GROUP  
3305 (Exmr. J. Lacyk)

## U.S. PATENT DOCUMENTS

Examiner Initials		DOCUMENT NUMBER						DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
	A1	7	6	5	7	4	6	7/04	Miner	—	—		
	A2	8	4	3	6	7	4	2/07	Funk	—	—		
	A3	1	3	5	5	6	7	9	10/20	McConnell	—	—	
	A4	1	3	5	5	8	4	6	10/20	Rannels	—	—	
	A5	1	3	8	5	3	4	6	7/21	Taylor	—	—	
	A6	2	2	3	2	2	5	4	2/41	Morgan	—	—	
	A7	2	3	3	8	3	3	9	1/44	LaMere	—	—	
	A8	2	9	6	9	0	5	7	1/61	Simmons	—	—	
	A9	3	0	2	6	5	2	6	3/62	Montrose	—	—	
	A10	3	4	8	6	5	0	4	12/69	Austin, Jr.	—	—	
	A11	3	4	7	8	7	3	6	11/69	Roberts et al.	—	—	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO	
	B1	6	4	1	0	6	1	8/50	United Kingdom	—	—		
	B2	1	2	7	3	3	4	2	5/72	United Kingdom	—	—	
	B3	2	8	0	9	8	2	8	9/78	Germany	—	—	
	B4	WO	91	1	6	0	3	0	10/91	Published PCT	—	—	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	C1	Junod, "Hyperemia by Suction Apparatus, Chapter VIII"
	C2	Saunders, J.W., The Lancet, pp. 1286-1287, June 28, 1952, "Negative-Pressure Device for Controlled Hypotension During Surgical Operations"
✓	C3	Landis et al., Robinette Foundation of the Hospital of the University of Pennsylvania, "The Effects of Alternate Suction and Pressure on Blood Flow to the Lower Extremities"
✓	C4	Hargens et al., Space Physiology Laboratory, Life Science Division, NASA Ames Research Center, "Control of Circulatory Functions in Altered Gravitational Fields"
✓	C5	Wolthuis et al., Physiological Reviews, 54: 566-595, July 1974, "Physiological Effects of Locally Applied Reduced Pressure in Man"
✓	C6	Viljanto et al., Br. J. Surg., 63: 427-430, 1976, "Local hyperalimentation of open wounds"
✓	C7	Dillon, Angiology -- The Journal of Vascular Diseases, pp. 47-55, January 1986, "Treatment of Resistant Venous Stasis Ulcers and Dermatitis with the End-Diastolid Pneumatic Compression Boot"

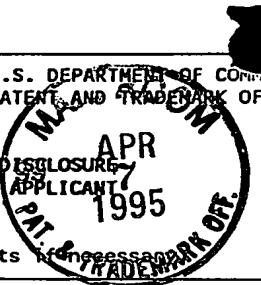
EXAMINER

*J. Lacyk*

DATE CONSIDERED

11/26/93

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
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STATEMENT BY APPLICANT

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ATTY. DOCKET NO.

SERIAL NO.

08/028,677

APPLICANT

LOUIS C. ARGENTA and MICHAEL J. MORYKVAS

FILING DATE

March 9, 1993

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3305 (Exmr. J. Lacyk)

## U.S. PATENT DOCUMENTS

Examiner Initial		DOCUMENT NUMBER								DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>2d</i>	A12	3	4	8	1	3	2	6		12/69	Schamblin			
<i>1</i>	A13	3	6	1	0	2	3	8		10/71	Rich, Jr.			
	A14	3	8	2	6	2	5	4		7/74	Mellor			
	A15	4	1	4	9	5	4	1		4/79	Gammons et al.			
	A16	4	1	7	2	4	5	5		10/79	Beaussant			
	A17	4	2	9	7	9	9	5		11/81	Golub			
	A18	4	4	6	9	0	9	2		9/84	Marshall et al.			
	A19	4	6	2	4	6	5	6		11/86	Clark et al.			
	A20	4	7	5	9	3	5	4		7/88	Quarfoot			
	A21	4	7	6	5	3	1	6		8/88	Marshall			
<i>2d</i>	A22	4	7	7	8	4	5	6		10/88	Lokken			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>2d</i>	C8	Lundvall et al., Acta Physiol Scand, <u>136</u> : 403-409, accepted Jan. 28, 1989, "Transmission of externally applied negative pressure to the underlying tissue. A study on the upper arm of man"
<i>2d</i>	C9	Klemp et al., The Journal of Investigative Dermatology, pp. 725-726 (1989), "Subcutaneous Blood Flow in Early Male Pattern Baldness"
<i>2d</i>	C 10	A. Harle, Z. Orthop., <u>127</u> : 513-517 (1989), "Schwachstellen herkömmlicher Drainagen"
<i>2d</i>	C 11	Dunlop et al., Br. J. Surg., <u>77</u> : 562-563 (1990), "Vacuum drainage of groin wounds after vascular surgery: a controlled trial"
<i>2d</i>	C 12	Maddin et al., International Journal of Dermatology, <u>29</u> : 446-450 (1990), "The Biological Effects of a Pulsed Electrostatic Field with Specific Reference to Hair: Electrotrichogenesis"
<i>2d</i>	C 13	Nakayama et al., Ann. Plast. Surg., <u>26</u> : 499-502 (1991), "A New Dressing Method for Free Skin Grafting in Hands"
<i>2d</i>	C 14	Hargens et al., Aviation, Space and Environmental Medicine, pp. 934-937, Oct. 1991, "Lower Body Negative Pressure to Provide Load Bearing in Space"

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*11/20/94*

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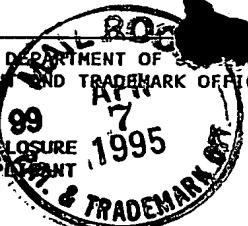
FILING DATE

March 9, 1993

GROUP

3305 (Exmr. J. Lacyk)

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## U.S. PATENT DOCUMENTS

Examiner Initial	DOCUMENT NUMBER	DATE	NAME	CLASS	Sub Class	FILING DATE IF APPROPRIATE
	A23 4 8 3 6 1 9 2	6/89	Abbate			
	A24 4 9 0 6 2 3 3	3/90	Moriuchi et al.			
	A25 4 9 1 7 1 1 2	4/90	Kalt			
	A26 4 9 4 1 8 8 2	7/90	Ward et al.			
	A27 4 9 5 3 5 6 5	9/90	Tachibana et al.			
	A28 5 0 8 6 7 6 4	2/92	Gilman			
	A29 5 1 0 6 3 6 2	4/92	Gilman			
	A30 5 2 2 8 4 3 1	7/93	Giarretto			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	Sub Class	TRANSLATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

C . 15	Author unknown, Science, Sept. 1992, p. 42, "The Not-So-Bald-Truth"
C . 16	Techno Takatsuki Co., Ltd., 8-16 Hatchonishimachi, Takatsuki City, Osaka, JAPAN, "HiBlow Air Pump"
C . 17	Wells Johnson Company, 2045 N. Forbes Blvd., Suite 106, Tucson, AZ, "Suction Tips"
C . 18	Industrial Equipment News, P.O. Box 1158, Skokie, IL 60076-9786, "Miscellaneous Equipment"

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